

Title (en)  
Laser assembly

Title (de)  
Lasieranordnung

Title (fr)  
Agencement laser

Publication  
**EP 2575218 A3 20130424 (DE)**

Application  
**EP 12006978 A 20121009**

Priority  
DE 102011114474 A 20110928

Abstract (en)  
[origin: DE102011114474B3] The laser device (1) has a resonator having an optical path formed between the resonator mirrors (10,20). A laser medium (30), a polarization-dependent beam splitter (40), an electro-optical modulator (50), and an optical way extension system (60) are arranged in optical path. The laser medium is pumped by a pumping device. An electro-optical modulator is provided to change the polarization of laser beam. The optical way extension system is provided with reflecting devices (61,62) arranged such that the laser beam is reflected between the reflecting devices.

IPC 8 full level  
**H01S 3/11** (2006.01); **G02B 17/00** (2006.01); **G02B 17/02** (2006.01); **H01S 3/081** (2006.01)

CPC (source: EP)  
**G02B 17/004** (2013.01); **G02B 17/023** (2013.01); **H01S 3/0092** (2013.01); **H01S 3/08059** (2013.01); **H01S 3/08068** (2013.01); **H01S 3/10038** (2013.01)

Citation (search report)  
• [XYI] US 7590156 B1 20090915 - RICHARDSON MARTIN [US], et al  
• [Y] US 7876803 B1 20110125 - DI TEODORO FABIO [US], et al  
• [XYI] PALMER G ET AL: "MICROJOULE PULSES FROM A PASSIVELY MODE-LOCKED YB:KY(WO4)2 THIN-DISK OSCILLATOR WITH CAVITY DUMPING", OPTICS LETTERS, OSA, OPTICAL SOCIETY OF AMERICA, WASHINGTON, DC, US, vol. 32, no. 11, 1 June 2007 (2007-06-01), pages 1593 - 1595, XP001542990, ISSN: 0146-9592  
• [XYI] KILLI A ET AL: "Microjoule femtosecond laser pulses from a cavity-dumped Yb:KYW oscillator", LASERS AND ELECTRO-OPTICS, 2005. (CLEO). CONFERENCE ON BALTIMORE, MD, USA MAY 22-27, 2005, PISCATAWAY, NJ, USA,IEEE, vol. 1, 22 May 2005 (2005-05-22), pages 776 - 778, XP010876715, ISBN: 978-1-55752-795-0  
• [IY] SIEGEL M ET AL: "Microjoule pulse energy from a chirped-pulse Ti:sapphire oscillator with cavity dumping", OPTICS LETTERS, OSA, OPTICAL SOCIETY OF AMERICA, WASHINGTON, DC, US, vol. 34, no. 6, 15 March 2009 (2009-03-15), pages 740 - 742, XP001522397, ISSN: 0146-9592, DOI: 10.1364/OL.34.000740

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CN107681422A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102011114474 B3 20121213**; EP 2575218 A2 20130403; EP 2575218 A3 20130424

DOCDB simple family (application)  
**DE 102011114474 A 20110928**; EP 12006978 A 20121009